



United States  
Department of  
Agriculture

Forest  
Service

Arizona Zone  
Entomology and  
Pathology

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Subject: 1998 Insect and Disease Aerial Detection Survey

To: Area Director  
Bureau of Indian Affairs  
Phoenix Area Office  
P. O. Box 10  
Phoenix, AZ 85001

The annual insect and disease detection survey was conducted over the San Carlos Indian Reservation September 18-19, 1998. Enclosed you will find one copy each of the 4 maps depicting the insect conditions on the Reservation. To facilitate future analysis needs and to standardize national reporting, conditions are now being recorded on USGS 1:100,000-scale metric topographic maps.

A decrease in bark beetle activity was mapped in 1998. A total of 979 acres of bark beetle mortality was mapped in 1998 as compared to 3,528 acres in 1997. Most of this activity was attributed to *Ips* spp. and western pine beetle. The highest amount of activity was seen in the Nantanes Mountains and near sawmill tank. Jill Wilson, of this office, identified western pine beetle, roundheaded pine beetle and *Ips* engraver beetles in ponderosa pine mortality areas on the Fort Apache Indian Reservation. It is possible that the mortality being seen on the San Carlos Indian Reservation may include mortality due to all three bark beetles. Winter damage to trees on 159 acres was noted at Malay Gap. Fire was recorded on 742 acres most of which was near the town of Point of Pines.

If you have any questions regarding this survey, please contact Bobbe Fitzgibbon (520-556-2072) or Steve Dudley (520-556-2071).

/s/ Borys M. Tkacz

Borys M. Tkacz

Zone Leader, Arizona Zone Entomology and Pathology

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